www.wackergroup.com

| | |
|---|---|
| 0201438en | 002 |
| 10.2005 | |

# Gasoline powered floor saw

# BFS 1350AL

**Operator´s Manual**

## Important information

**This machine has been equipped with an EPA certified engine.**

**Additional information can be found in the engine manufacturers notes.**

**WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Caution**

This engine is an EPA engine.

Adjusting the engine speed will interfere with EPA certivication and emissions.

Only authorized personnel can make adjustments to this engine.

Please contact you nearest Motor dealer or your Wacker Dealer for more information.

# Foreword

For your own safety and protection from bodily injuries, carefully read, understand and follow the safety instructions in this manual.

Please operate and maintain your Wacker machine in accordance with the instructions in this manual.

Defective machine parts are to be replaced as soon as possible.

All rights, especially the right for copying and distribution are reserved.

Copyright by Wacker Construction Equipment AG.

No part of this publication may be reproduced in any form or by any means, electronic or mechanical, including photocopying, without express permission in writing from Wacker Construction Equipment AG.

Any type of reproduction, distribution or saving on data carriers of any type or method not authorized by Wacker represents an infringement of valid copyrights and will be prosecuted.
We expressly reserve the right to technical modifications- even without express due notice - which aim at improving our machines or their safety standards.

**IMPORTANT INFORMATION** 1

**FOREWORD** 3

**SAFETY INSTRUCTIONS** 5

General instructions 5
Operation 5
Safety checks 6
Maintenance 6
Transport 6
Maintenance checks 6

**TECHNICAL DATA** 7

**DESCRIPTION** 8

Field of applications 8
Dimensions 8
8
Max. admissible inclination 8
Description of function 9
General instruction for the use of diamond blades 10

**TRANSPORT TO WORK SITE** 11

**OPERATION** 12

Guide handle adjustment 12
Guide wheel adjustment 12
Cutting depth adjustment 13
Water tank 14
Parking brake 14
Removal of the cutting disc 15
Installation of the cutting disc 15
Right-hand, left-hand cutting conversion 16
Engine check before starting 17
Starting the engine 17
Operation the engine 18
Stopping the engine 19

**MAINTENANCE** 20

Maintenance schedule 20
Oil change 21
Air cleander service 21
Cleaning the fuel filter cup 22
Spark plug 22
Carburettor adjustment 22
Adjusting drive belt tension 23
Drive belt replacement 23

**ELECTRIC WIRING DIAGRAM** 24

**LABELS** 25

**EC - CONFORMITY-CERTIFICATE** 27

# SAFETY INSTRUCTIONS FOR THE USE OF FLOOR SAWS WITH COMBUSTION ENGINE

## General instructions

1. Floor saws may only be operated by persons who
   * are at least 18 years of age
   * are physically and mentally fit for this job
   * have been instructed in operating saws and proved their ability for the job to the employer
   * may be expected to carry out the job they are charged with carefully.

   The persons must be assigned the job of operating joint cutters by the employer.

2. Both the manufacturer's operating instructions and these safety instructions for floor saws have to be observed.

3. The persons charged with the operation of floor saws have to be made familiar with the necessary safety measures relating to the machine. In case of extraordinary uses the employer shall give the necessary additional instructions.

4. It is possible that these floor saws exceed the admissible sound level of 90 dB (A). Operators must wear personal hearing protection if the admissible assessment sound level equals or exceeds 90 dB (A).

## Operation

1. The functioning of operating levers or elements is not to be influenced or rendered ineffective.
2. Only use cutting blades suited for the circumferential (peripheral) speed or the machine's rpm's.
3. Always use cutting blades correctly suited for the materials to be cut.
4. Do not touch hot machine parts – danger of burns!
5. Be especially careful to observe that the cutting blade does not touch anything when starting the engine or when lifting or putting down the machine.
6. The operator may not leave the machine while it is running.
7. The operator has to switch off the engine of the joint cutter before leaving the machine. He has to secure the machine against rolling and overturning.
8. Do not smoke or handle open fire near this machine.
9. The tank lid must fit tightly. Shut fuel cock if available when stopping the engine. For long distance transports of machines operated by fuel or fuel - mixtures, the fuel tank has to be drained completely.

   ☞ **ATTENTION!** Leaky fuel tanks may cause explosions and must therefore be replaced immediatelly.
10. Stop engine before filling fuel tank. When refilling fuel tank, do not allow fuel to come into contact with the hot part of the engine or spill onto the ground.
11. Make sure that sufficient fresh air is available when operating cutters with combustion engines in enclosed areas, tunnels, adits and deep trenches.
12. Floor saws must be used in connection with water (wet cutting) in order to avoid the formation of fine dusts which are injurious to your health. Make sure that the water supply is sufficient during wet cutting.
13. Do not operate this machine in areas where explosions may occur.
14. When working in the vicinity of inflammable materials, always have water or a fire extinguisher handy.

15. Always wear protective goggles, hearing protection, work gloves, protective helmet, tight-fitting clothing and safety shoes during operations with the equipment. Shoes and pants must be closed to offer protection against flying sparks. Wear approved respiratory protection (e.g. a mask) if there is a lot of dust in the air.
16. Avoid lateral twisting or bending of the machine during the cutting process as well as avoiding impacts, blows or even dropping the machine as this will lead to damages of the cutting blade. Only subject the cutting blade to radial burdens (loads).
17. Fix protective hood in lowest position before starting engine.
18. No persons are to be in the vicinity of the floor saw, i.e in front of the floor saw during operation.
19. The operator must stop the blade from turning before relocating the machine.
20. Work calmly and cautiously so as not to endanger others.

**Safety checks**

1. Floor power saws may only be operated if all operating and safety devices are correctly mounted. This also includes the water tank.
2. Before starting operation, the operator has to check that all control and safety devices function properly.
3. Before starting the cutting applications check daily as follows:
   * proper conditions of cutting blade.
   * correct tightening of the cutting blade.
4. In case of defects of the safety devices or other defects reducing the operational safety of thefloor saw, the supervisor has to be informed immediately.
5. In case of defects jeopardizing the operational safety of the saw, the machine has to be switched off ime diately.

**Maintenance**

1. Only use original spare parts. Modifications to this machine including the adjustment of the maximum speed set by the manufacturer are subject to the express approval of Wacker. In case of nonobservance all liabilities shall be refused.
2. Switch off the motor and remone spark plug cap from spark plug before carrying out maintenance jobs to avoid unintentional operation of the machine. Deviations from this are only allowed if the maintenance jobs require a running motor.
3. Caution when checking the ignition system. The electronic ignitio system produces a very hight voltage.
4. As soon as maintenance and repair jobs have been completed all safety devices have to be reinstalled.
5. Tilting the machine for maintenance works is not allowed.
6. Wash down the floor saw with fresh water after each use to avoid malfunctions.

**Transport**

1. Disassemble and remove the cutting blade and then place the floor saw in the lowest cutting position before transporting the machine.
2. During transport, loading and unloading of floor saws by means of lifting devices, appropriate slinging means or hooks have to be used on the lifting points provided for this purpose on the machine.

3. The load - carrying capacity of the loading ramps has to be sufficient and the ramps have to be secure such that they cannot turn over. Make sure that no one be endangered by machines turning over or slipping or by moving machine parts.

4. When being transported on vehicles floor saws have to be secured against rolling, slipping or overturning.

**Maintenance checks**

According to the conditions and frequency of use, floor saws have to be checked for safe operation at least once a year by skilled technicians, such as those found at Wacker-Service-Centers and have to be repaired if necessary.

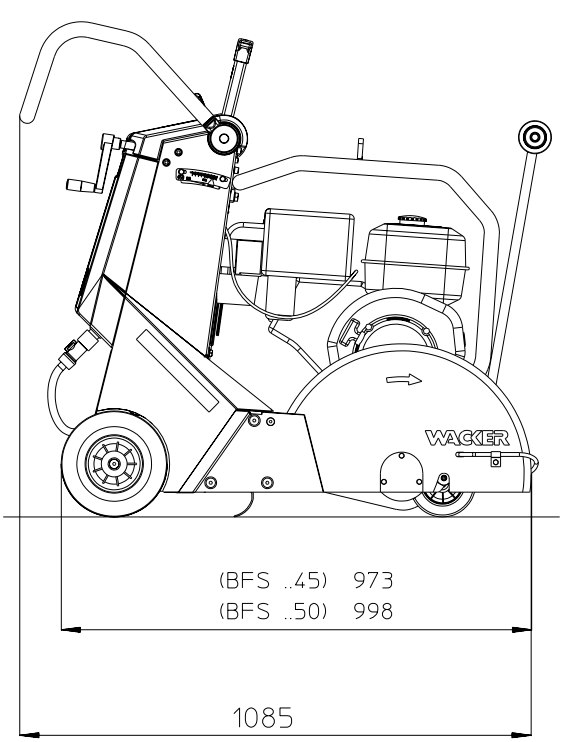
**Please also observe the corresponding rules and regulations valid in your country.**

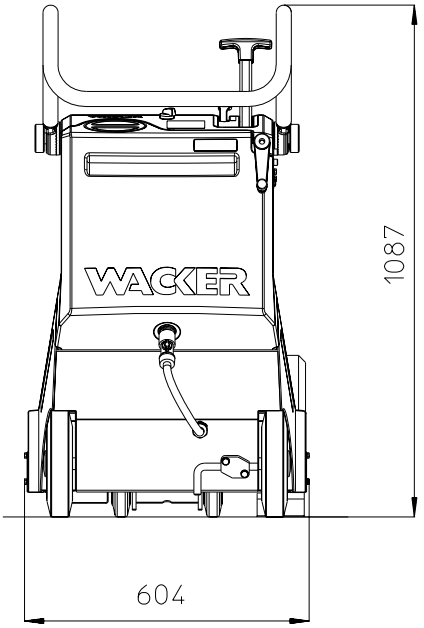
| | | BFS 1350AL | BFS 1350L | BFS 1350ALS |
|---|---|---|---|---|
| Item no. | | 0008898 ... | 0008936 ... | 0008885 ... |
| Weight | kg: | 136 | 134 | 153 |
| **Power transmission** | | From drive engine via drive belt to cutting blade | | |
| Max. diameter of blade | mm:<br>in: | 500<br>20 | | |
| Min. thickness of blade | mm:<br>in: | 350<br>14 | | |
| Max. cutting width | mm: | 12 | | |
| Location bore | mm: | 25,4 | | |
| Max. cutting depth | mm: | 187,5 | | |
| Disc's circumferential speed<br>ø 350<br>ø 400<br>ø 450<br>ø 500<br>(at engine's nominal speed) | <br><br>m/s:<br>m/s:<br>m/s:<br>m/s: | <br><br>40,3<br>46,1<br>51,8<br>57,6 | | |
| No-load revolutions of disc (at engine's nominal speed) | 1/min: | 2200 | | |
| Water tank capacity | l: | 28 | | |
| **Drive motor** | | Air-colled single-cylinder 4 stroke gasoline engine | | |
| Piston displacement | $cm^3$: | 389 | 404 | 389 |
| Rated speed | 1/min: | 3600 | | |
| Nominal output (*) | kW/PS: | 9,6/13 | 9,9/13,5 | 9,6/13 |
| Fuel | | Normal or lead-free gasoline | | |
| Fuel consumption (at engine's nominal speed) | l/h: | 4,3 | 4,2 | 4,3 |
| Fuel tank capacity | l: | 6,5 | 7,0 | 6,5 |
| Lubricant oil capacity | l: | 1,1 | 1,2 | 1,1 |
| Battery | | | | 12 V- 18 Ah |
| (*) In accordance with the installed useful outlet power according to Directive 2000/14/EG. | | | | |
| Sound pressure level at operator's station | $L_{PA}$: | 98 dB(A) | 97 dB(A) | 98 dB(A) |
| The weighted effective acceleration value, determined according to EN ISO 5349 | $m/s^2$: | is 6,9 | is 6,7 | is 6,9 |

### Field of applications

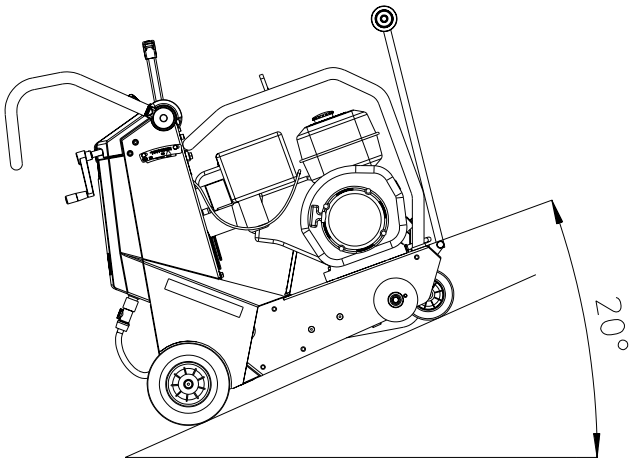
* Cutting expansion joints in concrete and asphalt surfaces.
* Repair jobs on roads, e.g. cutting out damaged patches of either asphalt or concrete road surfaces.
* Straightening black-top and concrete surfaces.
* Demolition jobs and renovation of old dwellings.
* Cutting precast concrete elements.
* Cutting expansion joints and recesses for installations in floor toppings.
* Laying induction loops and cables in signal systems.

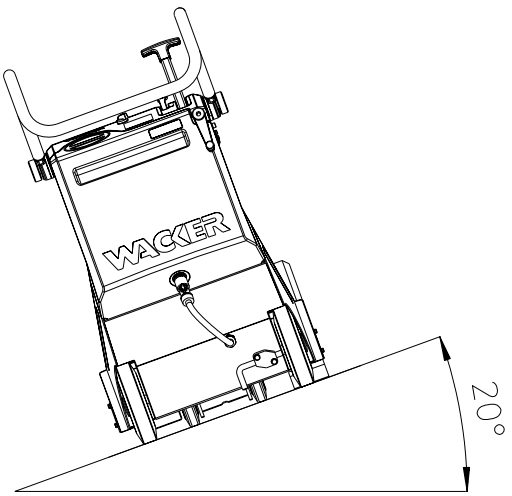
### Dimensions



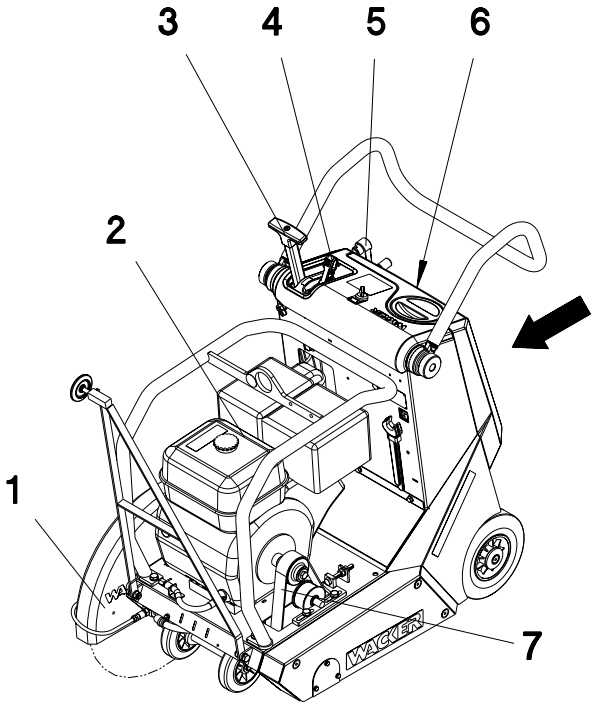

### Max. admissible inclination




The maximum allowable tilt is related to the engine plane.

**Description of function**




The floor saw should only be operated in a forward direction (see arrow).

The drive engine (2), which is fastened to the frame, drives the cutting disc by way of a drive belt (7).

A hand crank (5) is used to operate the infinitely variable height adjuster on the blade, and 1 turn = 5 mm cutting depth adjustment. At any time it is also possible to remove or introduce the cutting disc into the material to be cut by way of the lever (3).

The blade guard (1) can be swung away upwards for easier fixing and removing of the blade.

The blade guard is moreover linked to the water tank via a hose and a coupling. If water is used with the blade, this stops dust being created.
The coupling fitted to the water hose means an external water supply can be used.

A parking brake (6) has been included in the lower, right section of the console. The brake guarantees a safe parking of the floor saw on upward or downward slopes or gradients.

The engine works according to the 4-stroke principle, is started by means of a recoil starter , takes in the air via a dry air filter and is air colled.

The revs on the engine can be infinitely varied using the throttle control lever (4); the optimum cutting speed of the blade is only achieved with the engine working at full load.

In order to facilitate the starting, the eingine is provieded with a choke.

**General instruction for the use of diamond blades**

* Never use a blade of a diameter larger than necessary to cut a certain depth.

* In case the blade stops operating, take it out of the cut before starting the engine anew. Check the belt tension if the cutting disc should get stuck in the cut. Check the flanged nut and make sure that it is correctly tightened.

* Always cut in a straight line. Mark the line clearly allowing the operator to follow it easily without having to guide it from one side to the other to come back to the line (Do not cut narrow curves).

* Sufficient drive power is essential, therefore always cut with engine at full throttle.

* Caution: Special care is required when working on slopes (lanes and surfaces). Make sure the machine is not exerting a lateral pressure on the blade.

* Never exceed maximum speed indicated on the blade!

* Only use the appropriate cutting blade for the material you are going to cut (asphalt, concrete, ...). Wacker has an extensive selection of diamond blades in different grades of qualities for you.

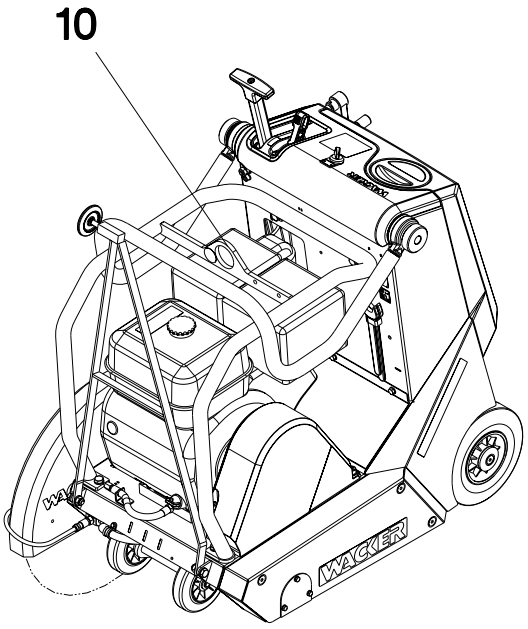
* Do not cut crushed stone or similar materials when using a diamond blade. Uneven wear may occur when cutting road edges or two different materials. Special care is required if the material to be cut contains inclusions such as reinforcements, etc. as this would easily overload the blade. Proceed carefully when staring to cut, lower the blade slowly.

**Transport to work site**

Conditions:

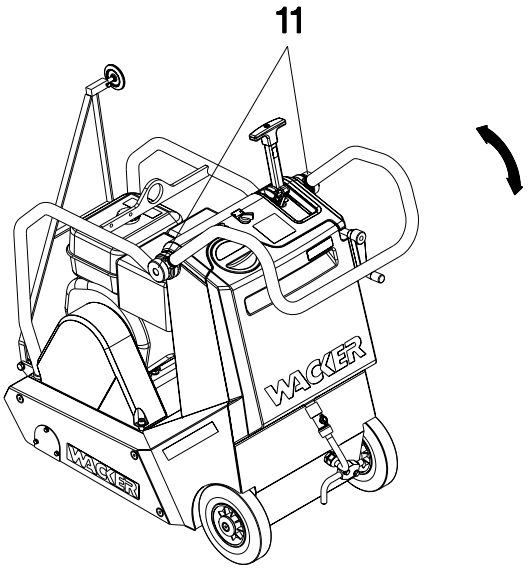
- Only use suitable lifting equipment with a minimum lifting capacity of 200 kg for the transport of the floor saw.
- Always switch off motor during transport!
- Empty the water tank.
- Attach appropriate secure lifting devices to the central lifting point (10) provided for this purpose.
- Tie down the protection frame during transport of the floor saw on the bed of a vehicle.
- Remove the cutting disc and place the floor saw in the lowest possible cutting position before transporting the machine.
- Turn up the guide wheel and fold the lever forwards.
- Apply the parking brake.
- Do not use the guide handle, the guide wheel or other operating devices or elements as lifting points.

**Note:** Also refer to the specifications in Chapter, Safety Instructions.



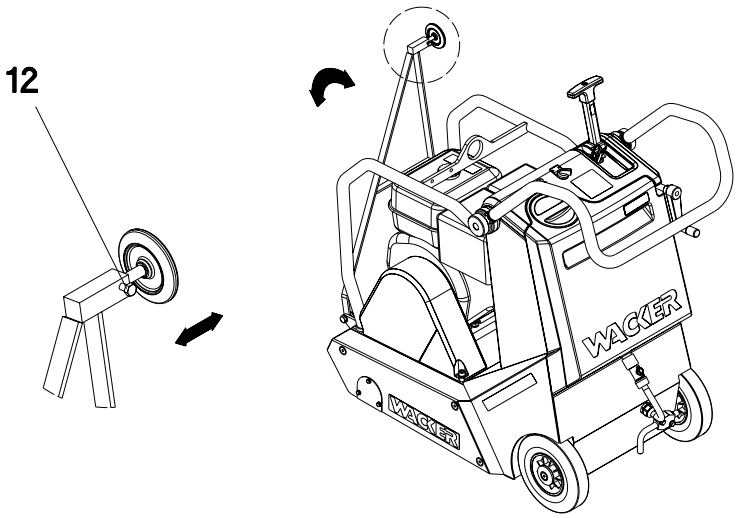
**Guide handle adjustment**

The guide handle can be individually adjusted to the height of the operator.
Loosen the knurled thumb screws (11) on both sides, swivel the guide handle to the desired position and then tighten back both knurled thumb screws.




**Guide wheel adjustment**

The guide wheel makes the job of cutting long straight cuts easier.
The guide wheel can be adjusted laterally to coincide exactly with the position of the cutting disc by loosening the clamp screw (12) and then sliding the wheel in one direction or the other.



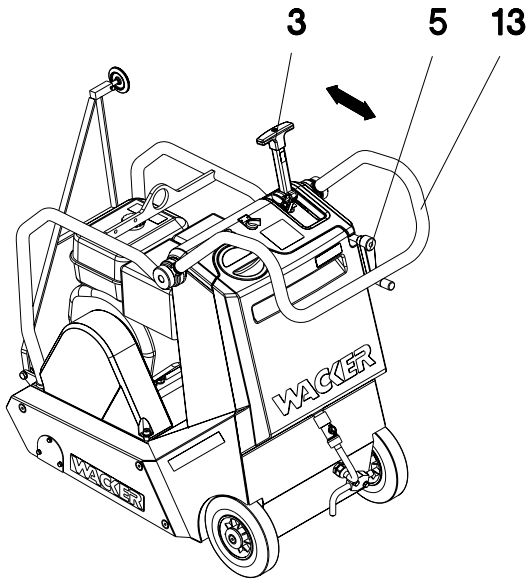
**Cutting depth adjustment**

Place the quick-lift lever in the forward lock-in position; this will enable you to exactly adjust the cutting depth by turning the crank (5). One turn of the crank drops the cutting disc by 5 mm (cutting depth).

It is possible to choose between two lock-in positions of the quick-lift-lever (3) at any time:
1. The forward lock-in position allows cutting with an individually set cutting depth.
2. The cutting disc is never engaged in the material when the quick-lift lever is in the back lock-in position. The floor saw can now be easily moved from one working area to the next.

Operation of the quick-lift lever:

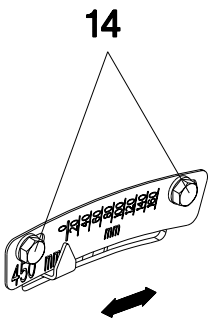
1. Loosen lock with the guide handle (13) and press down T-handle.
2. Push T-handle all the way forwards or, as the case may be, backwards.
3. Let go of T-handle. The handle will lock automatically.

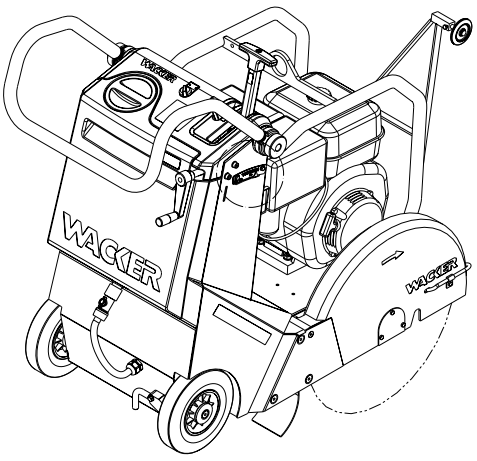



Each floor saw has been equipped with a metric and an inch scale; the scale is matched with the respective standard cutting disc.

To set the scale proceed as follows:

1. Push quick-lift lever (3) fully forwards.
2. Turn the cutting depth crank (5) until the cutting disc barely starts touching the floor.
3. Loosen the screws (14) and move the arrow until it coincides with the ”0” mark of the scale.
4. Retighten the screws (14).



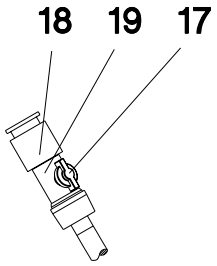
**Water tank**

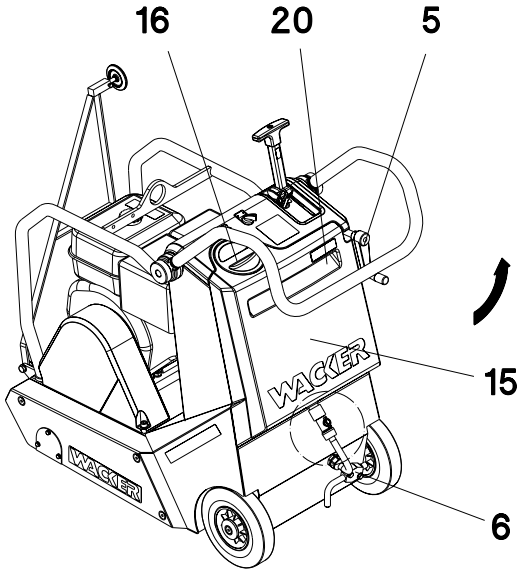
The floor saw has been equipped with an integrated, removable water tank (15). The filler opening (16) can be found at top left side. The water supply can be adjusted (17) and also turned off.

To remove the water tank proceed as follows:

1. Empty the water tank completely if required. For this purpose open the metering tap (17) completely.
2. Release the hose coupling (18) once the tank has been completely drained.
3. Turn hand crank (5) to a horizontal position.
4. Apply the parking brake (6).
5. Pull the tank out by the recessed grip (20).

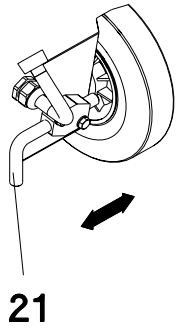
The adjustable hose coupling (19) can be used as a feeder point (1/2-inch) for an external hose connection.

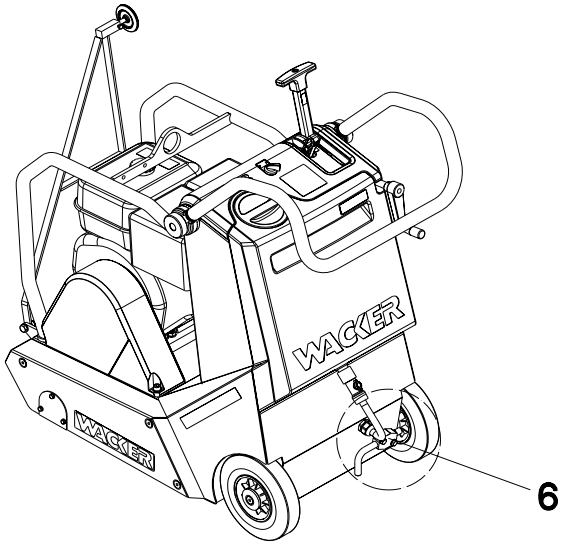



**Parking brake**

To apply the parking brake (6) push bolt (21) towards the right until it locks in the spokes of the back wheel. Always place the machine on a flat, level and non-skid surface. The maximum grade should not exceed $10^{o}$.

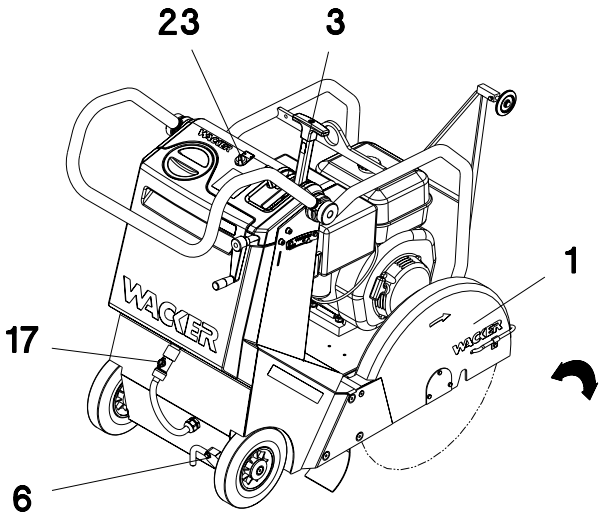


**Removal of the cutting disc**

Proceed as follows to remove a cutting disc:

1. Apply parking brake (6), stop engine (23) and stop water supply (17).
2. Move quick-lift lever (3) to position at the rear.
3. Disconnect the water hose.
4. Raise the cutting disc guard (1) all the way up.
5. Loosen the tightening nut. Hold cutting shaft with spanner at spanner surfaces.
   Note: To disassemble cutting disc from right side loosen nut in clockwise direction (left-handed thread).
   To disassemble cutting disc from left side loosen nut in anti-clockwise direction.



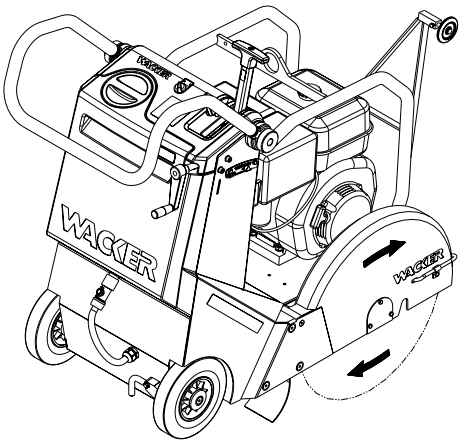

**Installation of the cutting disc**

Before installing check new cutting disc as follows:

* The disc type must be of the appropriate type for the material to be cut. Pay attention to the circumferential speed, see also ”Technical Specifications”.
* The central boring of the cutting disc must fit exactly on the shaft to make sure that the disc does not run out of center.
* The cutting disc should not be damaged.

**ATTENTION!**

Pay close attention to the correct turning direction of the cutting disc!
In other words, check to see that the turning direction arrow on the cutting disc coincides with the turning direction arrow on the cutting disc guard.




Proceed as follows for the installation of the cutting disc:

1. Clean the faceplates and the locking pin and then check to see that they are undamaged.
2. Place an intermediate layer (disc label) under each faceplate when using bakelite-bonded cutting discs.
3. Place cutting disc and face plate on shaft.
4. Tighten the hex nut. Hold the cutting shaft with a spanner at spanner surfaces.
   Note: To assemble cutting disc on right side tighten nut in anti-clockwise direction (left-handed thread).
   To assemble cutting disc on left side tighten nut in clockwise direction.
5. Push cutting disc guard (1) back down.
   The flange cover must be in place on the protective hood.
6. Connect the water hose.

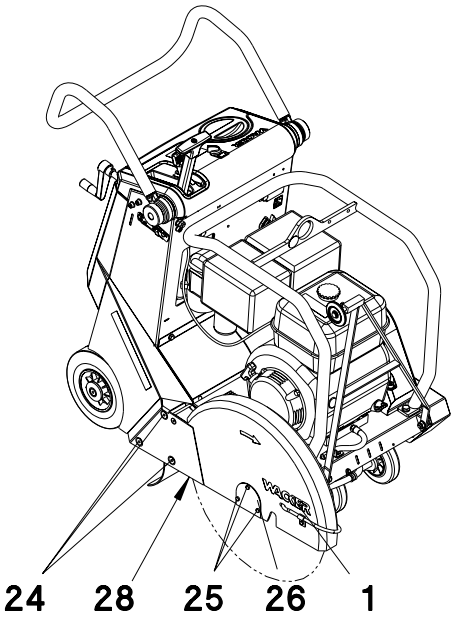
**ATTENTION!** Only start the unit once the water hose has been plugged in (attached) and the water feed connected.

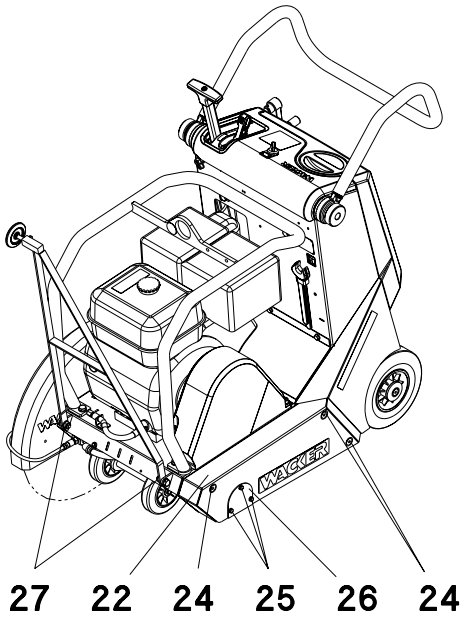
**Right-hand, left-hand cutting conversion**

To switch the cutting blade from one side to the other proceed as follows:

1. Disassemble the water hose fasteners and then reassemble on the opposite side in each case.
2. Loosen screws (24), remove cutting disc guard (1) and protective hood (22).
3. Loosen screws (25) and then reassemble covering plates (26) on the opposite sides.
4. Reassemble cutting disc guard (1) and protective hood (22) on the required sides.

Note: Carry out the following additional conversions if needed:
- Loosen screws (27), turn guide wheel around and then reassemble screws (27).
- Loosen screws (28), turn around dirt catcher and then reassemble screws (28).



**Engine check before starting**

1. **Oil level check**
   Insert dipstick in oil filter neck, but without screwing in. If oil level is low, fill to the top of the oil filter neck with Fuchs Titan Unic 10W40 MC oil.

   ☞ **ATTENTION!** Place machine in horizontal position before checking engine oil level.

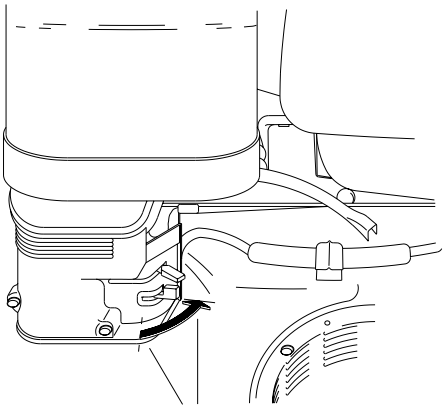
2. **Air filter system**
   Check to see that the air filter inserts and the cyclone housing are clean and undamaged. Clean and replace inserts if necessary.

3. **Fuel**
   Use any regular grade automotive gasoline (unleaded gasoline is preferred) with a pump octane rating of 86 or higher.
   Never use an oil/gasoline mixture or dirty gasoline: Avoid getting dirt, dust or water in the fuel tank.
   **Caution:** Gasoline substitutes are not recommended, they may be harmful to the fuel system components.

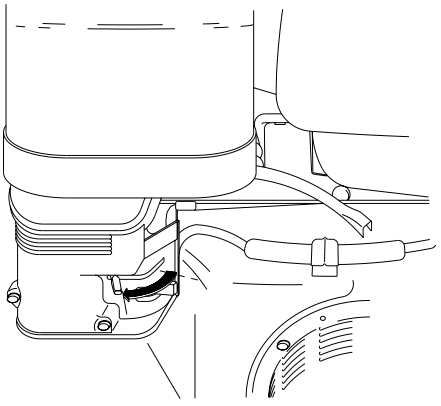
**Starting the engine**

☞ **ATTENTION!** The cutting disc should not be permitted to be contact with the ground.

1. Turn the fuel valve to the ON position.

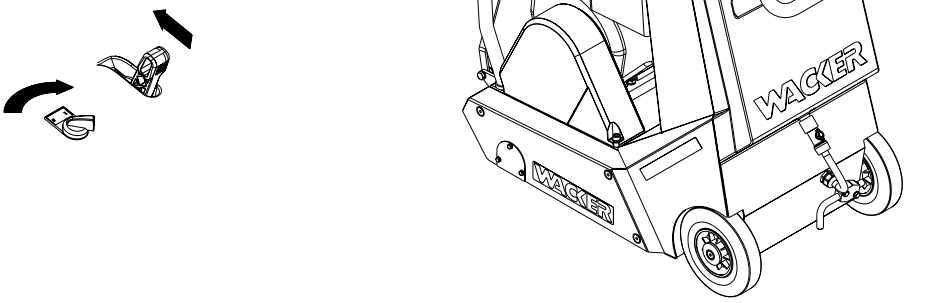


2. Move the choke lever to the CLOSE position.
   Note: If the engine is warm or the air temperature is high, move the control lever away from the Choke postion as soon as the engine starts.



3. Push throttle lever (4) slightly forward.

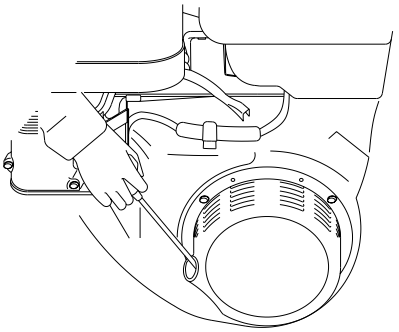
4. Turn main switch (23) to position ”1”.





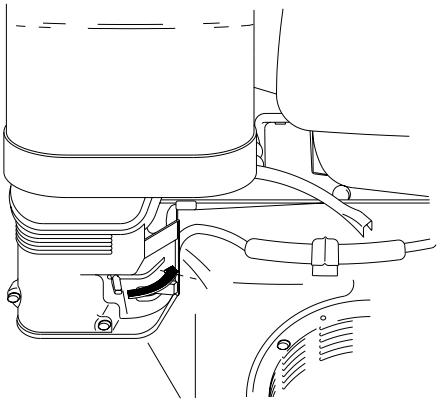

5. Pull starter handle out slowly until a slight resistance is felt, then pull handle with strength.

**Caution:** Do not allow the starter grip to snap back against the engine. Return it dently to grevent damage to the starter.



**Operation the engine**

As the engine warms up, gradually move the choke lever to the OPEN position.
Set required engine speed with throttle lever (4)



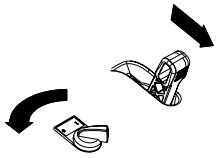
Oil Alert system

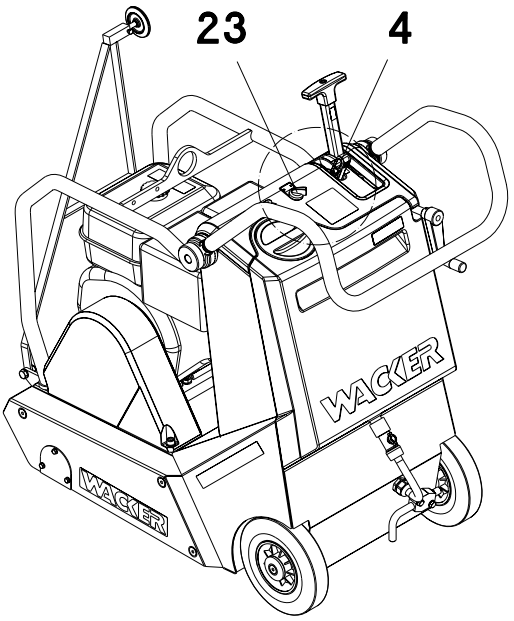
The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert system will automatically shut down the engine (leave the main switch in position ”1”).

**Stopping the engine**

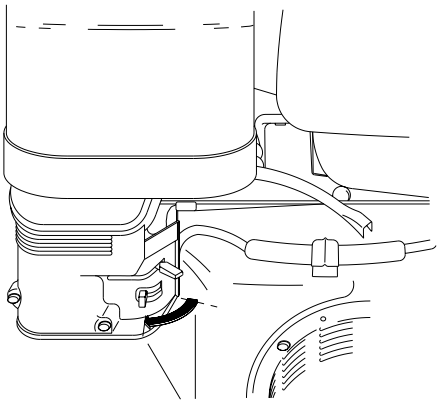
Turn the main switch to the position ”0” to stop the engine in an emergency.
Proceed as follows under normal working conditions:

1. Pull the throttle lever (4) all the way back to the stop position.
2. Turn the main switch to the position ”0”.






3. Turn the fuel valve to the OFF position.



**Maintenance schedule**

| Check all external screw connections for tight fit approx. 8 hours after first operation. | | |
|---|---|---|
| **Parts** | **Maintenance jobs** | **Maintenance interval** |
| Air filter<br><br><br>Fuel<br><br>Engine oil<br>Other parts | Check for external damage and tight fit.<br>Check foam and filter insert clean or replace if necessary.<br>Check tank lid for tightfit, replace if necessary.<br>Check oil level, top up if necessary.<br>Check cutting disc for damages and correct tightenning - change and or adjust if necessary. Pay attention to the directional arrow on the disc.<br>Control smooth working of the height adjustment.<br>Control water supply. | daily |
| Belts | Check tension and wear – replace if necessary. | weekly |
| Engine oil | First oil change. | 20 hours |
| Air filter | Clean. | 50 hours |
| Ignition system<br>Engine oil | Clean spark plug, check spark plug gap 0,7 mm.<br>Furhter oil changes. | 100 hours |
| Valve clearance | Check, set - 0,15 mm intake valve, 0,20 mm exhaust valve. | 300 hours |

**Oil change**

Drain the oil while the motor is still warm to assure rapid and complete draining.

1. Remove the oil filler cap drain plug to drain the oil.
2. Install the drain plug, and tighten it securetly.
3. Refill with the recommended oil and check oil level.

   ☞ **ATTENTION!** Place machine in horizontal position before checking engine oil level.
4. Install the oil filter cap.

Motor oil capacity: 1,1 l (1,06 USqt., 1,78 lmp pt)

**Take notice:** Please pay attention to the corresponding environmental laws when disposing of used engine oil. We recommend you carry the oil in a container to a central collecting point for used oils. Do not pour used engine oil into the garbage nor into the sewer system, waste pipes or even on the ground.

**Air cleander service**

A dirty air cleaner will restrict air flow to the carburetor, To prevent carburetor malfunction, service the air cleaner regularly. Service more freqently when operating the motor in extremely dusty areas.

**Warning:** Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

**Caution:** Never run the engine without the air cleaner. Rapid engine wear will result.

1. Remove the wing nut and the air cleaner cover. Remove the elements and sparate them. Carefully check both elements for holes or tears and replace if damaged.
2. Foam insert: Wash the insert in warm soap water, rinse and dry thoroughly. Alternatively wash the insert in a cleaning agent with a high flashing (ignition) point and then let dry. Then impregnate the insert with clean engine oil and press out excess oil. The engine will smoke during inial start-up if too much oil is left in the foam.
3. Paper element: Tap the element lightly serveral times on a hard surface to remove excess dirt, or blow compressed air through the filter from the inside out. Never try to brush the dirt off; brushing will force dirt into the fibers.
   Replace the paper element if it is excessively dirt.

Cleaning the cyclone housing:

If dust has collected in the cyclone housing unscrew the three flat-head special screws and then wipe clean or wash the parts with water. Then thoroughly dry the components and reassemble carefully.

**Caution:**
- When reassembling the cyclone pay close attention to see that the tab of the air input fits perfectly into the groove of the pre-filter cover.
- Assemble the air duct in the right direction.

**Cleaning the fuel filter cup**

Close the fuel tap. Remove the cup with the O-ring and clean with non-inflammable or hardly-inflammable solvent. Let dry thoroughly, then reassemble and tighten well. Turn the fuel valve on, and check for leaks.

**Spark plug**

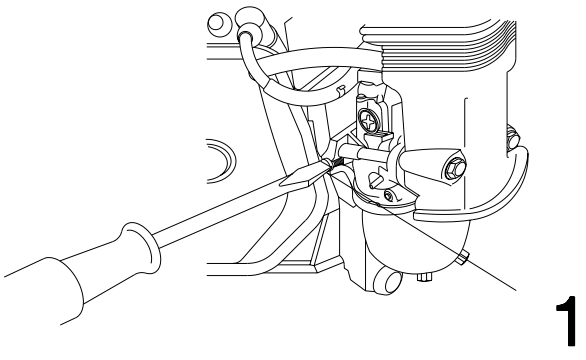
Recommended spark plug: BP6ES-11, BPR6ES-11 (NGK), W20EP-U11, W20EPR-U11 (ND).
**Caution:** Never use a spark plug of incorrect heat range.
To ensure proper motor operation, the spark plug must be properly gapped and free of deposits.

1. Remove the spark plug cap, and use a spark plug wrench to remove the plug.
   **Warning:** If the motor has been running, the muffler will be very hot. Be careful not to touch the muffler.
2. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
3. Measure the plug gap with a feeler gauge. The gap should be 0,7-0,8 mm (0.039-0.043 in). Correct as necessary by bending the side electrode.
4. Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
5. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.
   **Note:** If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer.
   **Caution:** The spark plug must be secrely tightened. An improperly tightened spark plug can become very hot and may damage the motor.

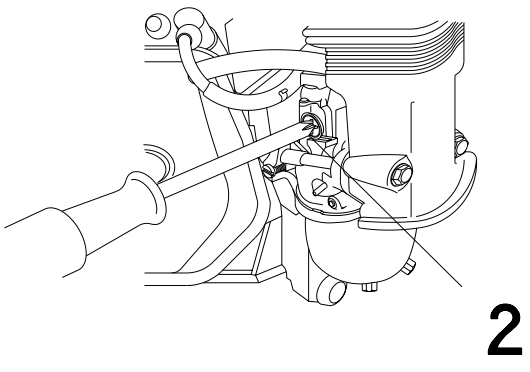
**Carburettor adjustment**

* Start the motor and allow it to warm up to normal operting temperature.
* With the motor idling, turn the pilot screw in or out to the setting that produces the highest idle rpm. The correct setting will usually be approximately 2 1/4 turns from the fully closed position.

**Caution:** Do not tighten the pilot screw against its seat, this will damage the piot screw or seat. After the pilot screw is correctly adjusted, turn the throttle stop screw to obtain the standard idle speed. Standard idle speed: 1 400 ± 150 rpm.




**1. Pilot screw**

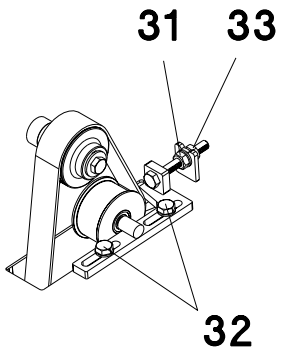


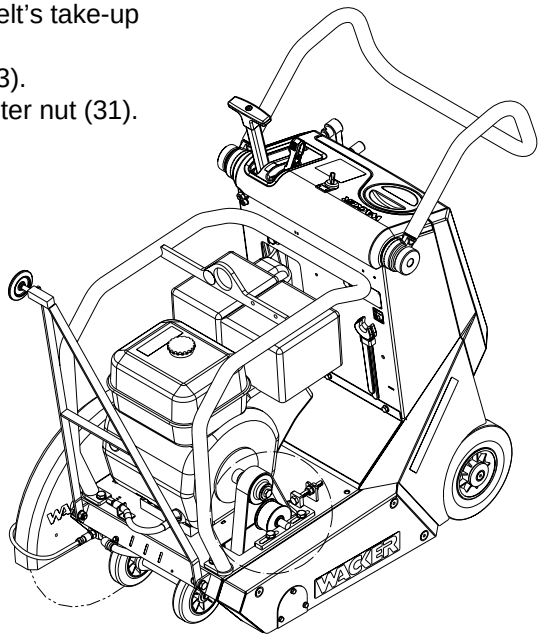

**2. Throttle stop screw**

**Adjusting drive belt tension**

The tension of the belt should be checked at the time of the weekly engine maintenance and, if necessary, tensioned as follows:

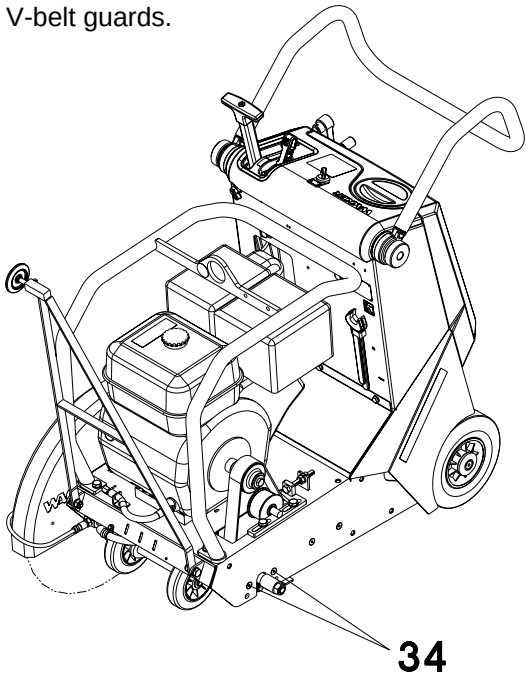
1. Remove V-belt guard.
2. Loosen counter nut (31).
3. Loosen the fastening screws (32) until the V-belt's take-up can be shifted without play.
4. Adjust drive belt tension with tensioning nut (33).
5. Tighten the fastening screws (32) and the counter nut (31).

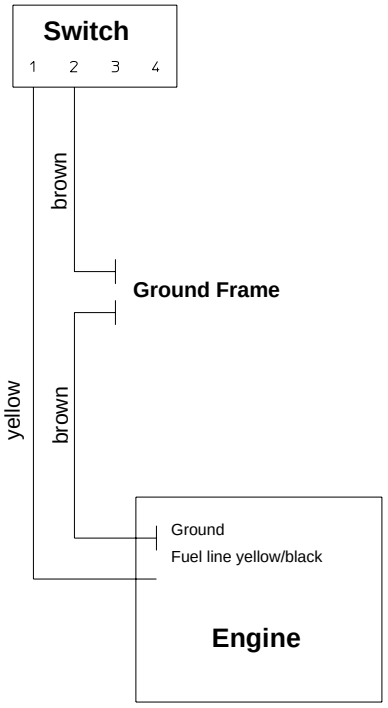


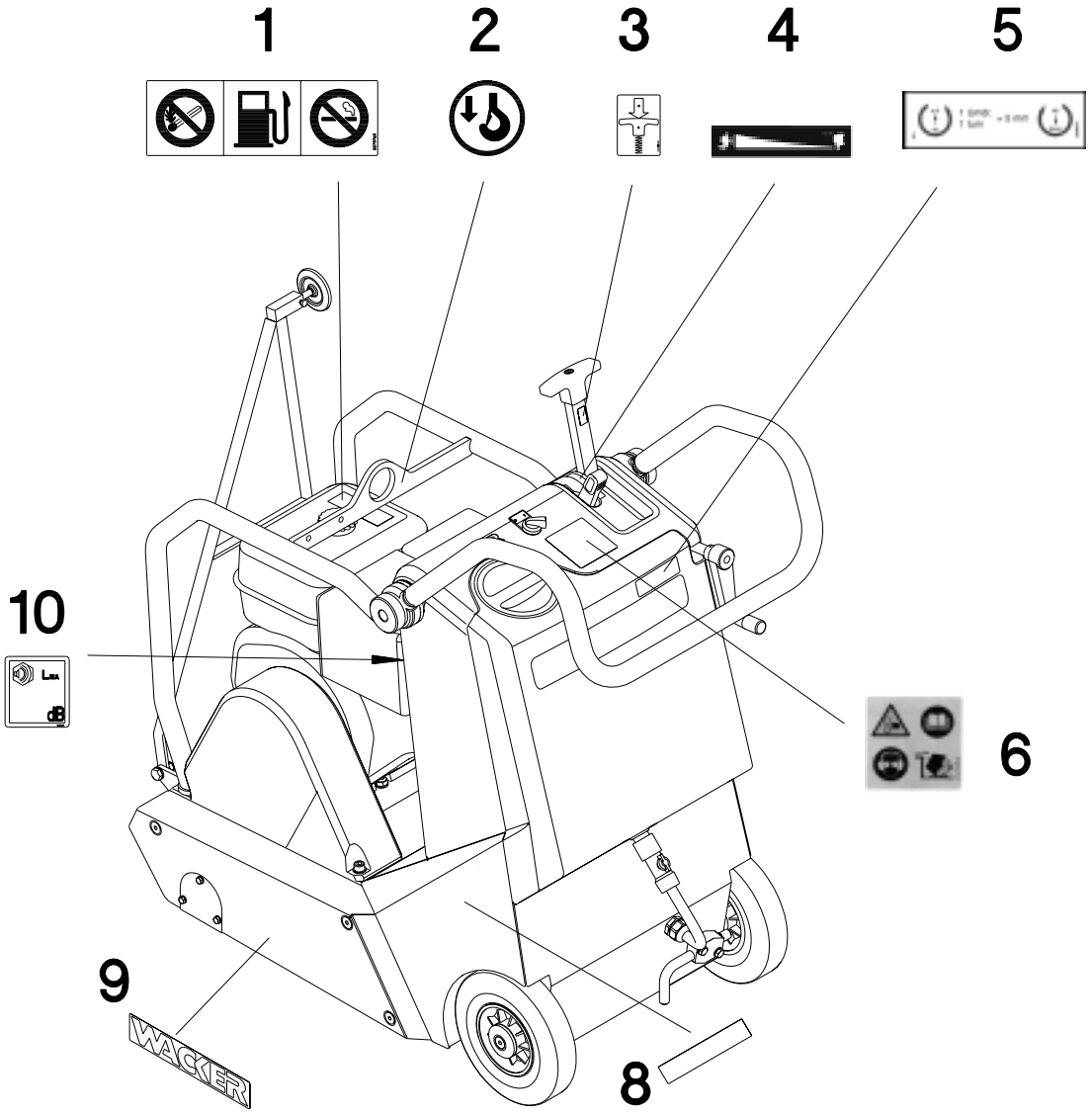




**Drive belt replacement**

1. Disassemble V-belt guard (above and below) and cutting disc guard.
2. Take tension off V-belts. To do this loosen the counter nut (31), the tensioning nut (33) as well as the fastening screws (32). Only loosen the fastening screws so far that the V-belt's take-up can be moved freely without play.
3. Loosen the screws (34) at the oval flanges (on both sides) of the cutting shaft.
4. Replace the V-belts.
5. Reassemble cutting shaft (34).
6. Adjust drive belt tension (see „Adjusting drive belt tension").
7. Reassemble cutting disc and V-belt guards.




Switch
1 2 3 4
brown
Ground Frame
yellow
brown
Ground
Fuel line yellow/black
Engine




| | |
|---|---|
| 1 | Warning sign |
| 2 | Lifting point |
| 3 | Notice sign |
| 4 | Notice sign |
| 5 | Notice sign |
| 6 | Notice sign |
| 8 | Type |
| 9 | Wacker Logo |
| 10 | Sound power level |

# EC - CONFORMITY-CERTIFICATE

**Wacker Construction Equipment AG , Preußenstraße 41, 80809 München**

hereby certify that the construction equipment specified hereunder:

1. Category: **Powered floor saw**

2. Type: **BFS 1345... / BFS 1350...**

3. Equipment item number:

**0008764 ..., 0008885 ..., 0008898 ..., 0008909 ..., 0008936 ...**

4. Measured sound power level: **106 dB(A)**

5. Guaranteed sound power level: **107 dB(A)**

and has been manufactured in accordance with the following directives:

**2000/14/EG**
**89/336/EG**
**98/37/EG**

Dr. Sick
Board of Directors

File certificate carefully

C0003306.GB

# VDE Prüf- und Zertifizierungsinstitut

VDE VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK e.V.

# CERTIFICATE

Registration Number 6236/QM/06.97

This is to certify that the company

WACKER

**Wacker Construction Equipment AG**
**Wacker-Werke GmbH & Co. KG**

with the locations

**Head Office Munich**
**Preussenstr. 41**
**80809 München**

**Production plant Reichertshofen**
**Karlsfeld logistics centre**
**Sales regions with all branches all over Germany**

has implemented and maintains a
Quality System for the following scope

**Machine manufacture**
**Construction machines**

This Q System complies with the requirements of

**DIN EN ISO 9001:2000**

This Certificate is valid until 05.06.2006

**VDE Testing and Certification Institute**
Certification

D-63069 Offenbach/Main, Merianstraße 28
Date 02.06.2003

**The VDE Testing and Certification Institute is accredited by DARAccreditation Bodies according to DIN EN 45012 and notified in the EU under ID. No. 0366.**

Deutscher Akkreditierungs Rat
DAR
TGA-ZM-009/92-00

Wacker Construction Equipment AG - Preußenstraße 41 - 80809 München - Tel.: +49-(0)89-3 54 02-0 - Fax: +49-(0)89-3 54 02-390
Wacker Corporation - P.O. Box 9007 - Menomonee Falls, WI 53052-9007 - Tel.: +1-(1)(262)-255-0500 - Fax: +1-(1)(262)-255-0550 - Tel.: (800)770-0957
Wacker Asia Pacific Operations-Skyline Tower, Suite 2303, 23/F, 39 Wang Kwong Road, Kowloon Bay, Hong Kong-Tel.: +852 2406 6032-Fax: +852 2406 6021